OVCAR-8

305383

GENERAL INFORMATION

Description

OVCAR-8 □一种人类卵巢癌细胞系，由一名晚期卵巢腺癌患者建立。该细胞系对患者治疗期间大剂量使用的顺铂和卡铂具有明显的抗药性，这一点尤为突出。 OVCAR-8 被广泛用于研究卵巢癌的化疗耐药性机制，以及开发克服铂类化疗耐药性的策略。

OVCAR-8 细胞呈上皮形态，在培养过程中粘附生长。该细胞系具有与高级别卵巢癌相关的分子和表型特征，包括 DNA 损伤修复机制和其他有助于肿瘤在化疗压力下存活的途径的改变。与其他一些卵巢癌细胞系不同，OVCAR-8 没有检测到金属硫蛋白的表达。不过，该细胞系对锡和其他药物具有交叉耐药性，这表明存在其他耐药机制，如谷胱甘肽水平升高和 DNA 修复能力增强。

在临床前研究中，OVCAR-8 □筛选化疗药物、评估靶向疗法和研究化疗耐药性生物学的重要工具。研究人员利用这种细胞系探索药物组合，旨在使抗药性肿瘤对标准治疗敏感。此外，OVCAR-8 还能让人们深入了解卵巢癌细胞的基因和分子适应性，这些适应性 □卵巢癌细胞在积极化疗方案下仍能存活和持续存在的基础。它的临床相关性和耐药性特征使其成为推动卵巢癌研究和治疗开发的重要资源。

Tissue	卵巢
Disease	卵巢腺癌

Synonyms

- OVCAR 8
- NIH:OVCAR-8
- OVCAR8
- Ovcar8
- OVCAR.8
- OVCA8
- OVCAR-8/EGFP_LC3

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Doubling time	24-32 小时

IDENTIFIERS

Citation

OVCAR-8（Cytion 目录号 305383）

NCBI TaxID	9606
Cellosaurus	CVCL_1629

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EXPRESSION AND SUSCEPTIBILITY

Mutational profile

□□□CTNNB1□□□□p.Gln26Arg (c.77A>G)□□□□□□□ERBB2□□□□p.Gly776Val (c.2327G>T)□□□□□□□KRAS□□□□p.Pro121His (c.362C>A)□□□□□□□□TP53□□□□c.376-1G>A□p.Tyr126_Lys132del□c.376_396del21□□□□□□□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□w□2.1 mM □□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

Incubation atmosphere	37°C, 5%CO2, □□□□□

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	Accutase
Seeding density	3-4 × 10^4 □□□/□□

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

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Freeze medium	□□□□□□□□□□□□□□□ FBS□+10% DMSO □ CM-1□Cytion □□□□□□ 800100□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□

Storage conditions

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Shipping conditions

□□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	64 □
Ethnicity	□□□□

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LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。这样做 □为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的细胞在开始培养时都 □存活的。
我们保证所有材料均符合分析证书和 /或产品说明书中描述的规格。
有关详细信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required	Yes

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